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NOTICE OF ALLOWANCE AND FEE(S) DUE

20575 7590 62/22/2008 MARGER JOHNSON & MCCOLLOM, P.C. 210 SW MORRISON STREET, SUITE 400

HAVING EXCELLENT TRANSPARENCY USING THE COMPOSITION

PORTLAND, OR 97204

EXAMINIER

NGUYEN, KHANH TUAN

ART UNIT

PAPER NUMBER

1796 DATE MAILED: 02/22/2008

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFRMATION NO.

 10/599,443
 09/28/2006
 Jone Woo Lee
 4820-022
 90.55

APPLN. TYPE SMALL ENTITY ISSUE FREE DUE PUBLICATION FIE DUE PREV. PAID ISSUE FREE TOTAL FREES) DUE DATE DUE

TITLE OF INVENTION: COMPOSITION FOR COATING ORGANIC ELECTRODE AND METHOD OF MANUFACTURING ORGANIC ELECTRODE

APPLY TYPE SMALLENTITY ISSUE PREDUE PUBLICATION PED DUE PREV, PAID ISSUE PEE TOTAL PREDS DUE DATE DUE

ROMPOVISIONAL YES \$720 \$300 \$0 \$1020 05/22/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.

PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS.

THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM

WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW

HOW TO REPLY TO THIS NOTICE:

DUE.

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further c indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off ions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a						tould be completed where correspondence address as rate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)						Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
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APPLICATION NO.	FILING DATE		FIRST NAMED INVEN		TOR		ATTORNEY DOCKET NO.		CONFIRMATION NO.	
10/599,443	09/28/2006			Jong Woo Lee			4820-022 9055			
TITLE OF INVENTION: HAVING EXCELLENT					1ETH	OD OF MANUFA	CTUR	ING ORGANIC ELE	TRODE	
APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE I	OUE	PREV. PAID ISSUE	S FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	YES		\$720	\$300		\$0		\$1020	05/22/2008	
EXAMI	NER		ART UNIT	CLASS-SUBCLASS	S					
NGUYEN, KH	IANH TUAN		1796	252-500000						
Address form PTO/SB "Fee Address" indi- PTO/SB/47; Rev 03-0. Number is required. 3. ASSIGNEE NAME AN	ondence address (or Cha v/122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. cas an assignee is ident in 37 CFR 3.11. Comp	nge of "Indicated. Use	Correspondence ation form of a Customer E PRINTED ON T		up to rnative single y or a t attor ill be or type the pa	3 registered paten ely, e firm (having as a gent) and the name neys or agents. If o printed. e)	memb es of u no nam	er a 2	ocument has been filed for	
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4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies				A. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
	SMALL ENTITY state	ıs. See	37 CFR I.27.					TTY status. See 37 CF		
interest as shown by the n	ecords of the United Sta	uirea) v tes Pat	ent and Trademark	Office.	nan ti	е арриса п т, а геді	stered a	morney or agent; or th	e assignee or other party in	
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

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10/599,443	09/28/2006	Jong Woo Lee	4820-022	9055
20575 7590 02/22/2008		EXAMINER		
MARGER JOHN	SON & MCCOLLO	NGUYEN, KHANH TUAN		
	ON STREET, SUITE 4	ART UNIT	PAPER NUMBER	
PORTLAND, OR	97204	1706		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
10/599,443	LEE ET AL.				
Examiner	Art Unit				
KHANIL T NGUYEN	1706				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 19 December 2007.
- The allowed claim(s) is/are 1-9.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. \(\overline{\text{Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08). Paper No./Mail Date 12/19/2007
- 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

/Mark Kopec/

Primary Examiner, Art Unit 1796

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DETAILED ACTION

1. Claims 1-9 are currently pending in the instant application.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 12/19/2007 has been initialed by the Examiner.

EXAMINER'S AMENDMENT

- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provide by 37 CFR1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. The application has been amended as follows:

Please amend the title to read –Composition for coating organic electrode and method of manufacturing an organic conductive layer having excellent transparency using the composition–.

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Withdrawn

5. The objection of claims 6 and 9 due to minor informalities is withdrawn in view of Application's amendment. The rejection of claims 1-9 are under 35 U.S.C. 103(a) as being unpatentable over Hirai (U.S. Pub. 2006/0006378 A1) is withdrawn in view of Application's amendment and remark.

Examiner's Statement of Reason for Allowance

- Claims 1-9 are allowed over the prior art of record.
- 7. The following is an examiner's statement of reasons for allowance: The claims, filed on 12/19/2007, have been carefully reviewed and searched. The best prior art of Hirai (U.S. Pub. 2006/0006378 A1) failed to suggest or teach a composition for coating organic conductive layer comprising of a water-soluble organic solvent system within the claimed proportions wherein the sheet resistance of the organic conductive layer ranges from 300 to 900 ohms per square and a visible ray transmittance is more than 90%.

The newly found prior art Nishihara et al. (JP Pub. 08-022722) teaches a transparent conductive film coating comprising of a solvent mixture of amide and sulfoxide to product a low surface resistivity coating. However, Nishihara et al. failed to suggest or teach the coating composition comprising of a blend of PEDOT and PSS

Application/Control Number: 10/599,443

Art Unit: 1796

polymer within the claimed proportion. Hirai and Nishihara et al. alone or in combination failed to suggest or teach a coating composition comprising the claimed ingredients within the claimed proportions having a sheet resistance ranging from 300 to 900 ohms per square and a visible ray transmittance of more than 90%. Therefore, claims 1-9 are allowed over the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Conclusion

Any inquiry concerning this communication or earlier communications from the
examiner should be directed to KHANH T. NGUYEN whose telephone number is
(571)272-8082. The examiner can normally be reached on Monday-Friday 8:00-5:00
EST PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Kopec/ Primary Examiner, Art Unit 1796

KTN 02/10/2008